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(FILE 'HOME' ENTERED AT 15:44:17 ON 03 NOV 2005)

FILE 'REGISTRY' ENTERED AT 15:44:26 ON 03 NOV 2005

L1 1 S PIGMENT YELLOW 138/CN

FILE 'CAPLUS' ENTERED AT 15:44:45 ON 03 NOV 2005

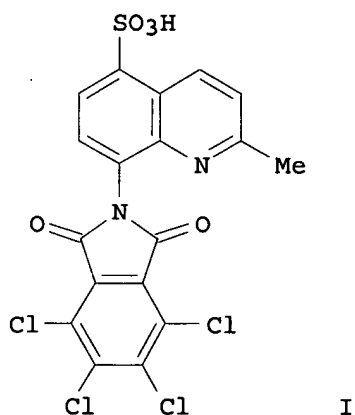
L2 308 S L1

L3 5 S L1(L) (GRINDING OR GROUND)

=> d l3 1-5 bib abs hitstr

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:1080988 CAPLUS
 DN 142:58225
 TI Use of quinaldine and naphthalene derivatives as crystallization modifiers
 for quinophthalone (and other) pigments.
 IN Stohr, Andreas; Schroeck, Manfred
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004108837	A1	20041216	WO 2004-EP6164	20040608
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10326631	A1	20050105	DE 2003-10326631	20030611
PRAI	DE 2003-10326631	A	20030611		
OS	MARPAT 142:58225				
GI					



AB Quinaldine and naphthalene derivs. are useful as crystallization modifiers in the

process of grinding and recrystn. of crude quinophthalone pigments from aqueous or/and organic solvent/water mixts. into fine-particle pigments.

Thus, I

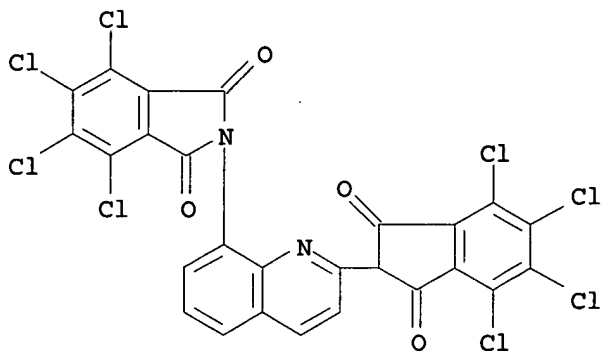
(prepared by heating a mixture containing 100 g of phenol, 34 g of 8-aminoquinaldine-5-sulfonic acid and 49 g of tetrachlorophthalic anhydride 8 h at 180°, cooling to 90°, adding 300 mL of methanol, washing and drying at 40°) is used in recrystn. of crude quinophthalone pigment having particle size 2 cm (Pigment yellow 138) from xylene solution with additives of aliphatic amines.

IT 30125-47-4P, Pigment yellow 138

RL: PUR (Purification or recovery); PREP (Preparation)
(quinaldine and naphthalene derivs. as crystallization modifiers in
grinding and recrystn. of crude quinophthalone pigments)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-
2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:159434 CAPLUS
 DN 140:183245
 TI Manufacture of pigment compositions with good dispersibility for color filters
 IN Saito, Yoichi; Fuyama, Satoru; Araki, Shingo; Kishimoto, Masaaki; Katsube, Hiroshi
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004059771	A2	20040226	JP 2002-221149	20020730
PRAI	JP 2002-221149		20020730		

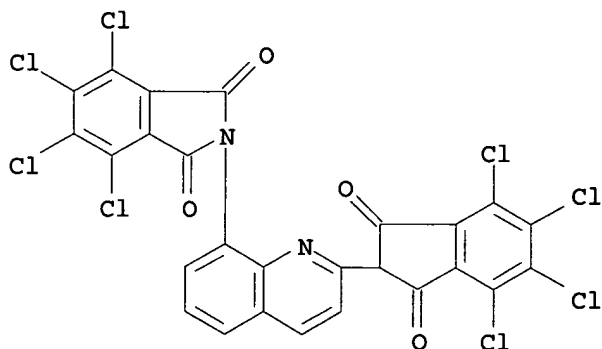
AB The pigment compns. containing ≥ 2 pigments are manufactured by wet-grinding in the presence of 2-oxo-1,3-dioxolan-4-yl-containing polymers. Thus, a composition containing C.I. Pigment Green 36 50, C.I. Pigment Yellow 138 50, benzyl methacrylate-2,3-carbonatopropyl methacrylate-methacrylic acid copolymer 10, diethylene glycol 200, and NaCl 700 parts was ground, washed with hot water, and dried to give a composition with average primary particle size 40

nm.

IT 30125-47-4, C.I. Pigment Yellow 138
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (manufacture of pigment compns. by wet-grinding pigments in the presence of 2-oxo-1,3-dioxolan-4-yl-containing polymers for color filters)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinoliny]- (9CI) (CA INDEX NAME)



L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:159433 CAPLUS
 DN 140:183244
 TI Manufacture of pigment compositions with good dispersibility for color filters
 IN Saito, Yoichi; Fuyama, Satoru; Araki, Shingo; Kishimoto, Masaaki; Katsube, Hiroshi
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004059770	A2	20040226	JP 2002-221148	20020730
PRAI	JP 2002-221148		20020730		

OS MARPAT 140:183244

AB The pigment compns. containing ≥ 2 pigments are manufactured by wet-grinding in the presence of quinophthalone derivative sulfonic acids or their salts. Thus, a composition containing C.I. Pigment Green 36 50, C.I. Pigment Yellow

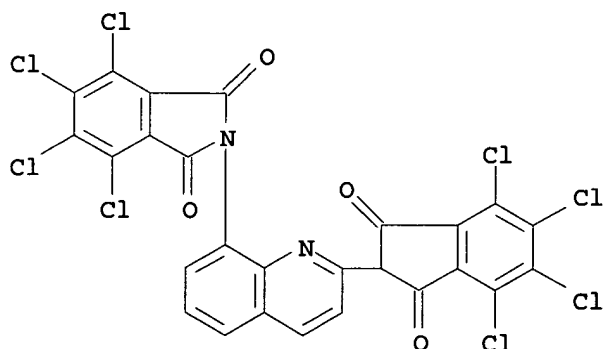
138 50, sulfonated Paliotol Gelb K 0961HD (quinophthalone derivative) 5, diethylene glycol 200, and NaCl 700 parts was ground, washed with hot water, and dried to give a composition with average primary particle size 50

nm.

IT 30125-47-4DP, K 0961HD, sulfonated
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
 (Paliotol Yellow K 0961HD; manufacture of pigment compns. by wet-grinding pigments in the presence of sulfonated quinophthalone derivs. for color filters)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



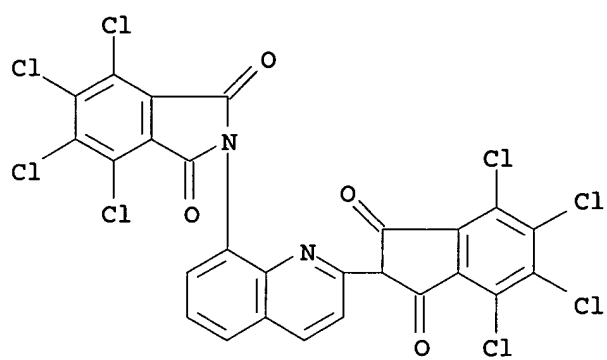
IT 30125-47-4, C.I. Pigment Yellow 138

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(manufacture of pigment compns. by wet-grinding pigments in the presence of sulfonated quinophthalone derivative for color filters)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:4896 CAPLUS
 DN 138:40760
 TI Finely divided pigments, their production and coloring compositions containing them
 IN Okamoto, Hisao; Nakagawa, Yutaka; Zama, Yoshiyuki; Tsuchiya, Koji; Takami, Shotoku; Abe, Yoshio; Nakamura, Michiei
 PA Dainichiseika Color & Chemicals Mfg. Co. Ltd., Japan
 SO Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

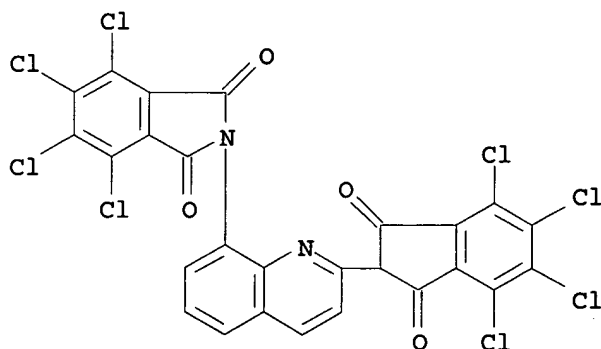
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1270680	A2	20030102	EP 2002-14369	20020627
	EP 1270680	A3	20031029		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003089756	A2	20030328	JP 2002-138613	20020514
	US 2003084820	A1	20030508	US 2002-180020	20020627
	US 6726762	B2	20040427		
	CN 1394917	A	20030205	CN 2002-127562	20020628
PRAI	JP 2001-196893	A	20010628		

AB Pigment aggregates based on $\geq 95\%$ particles $< 0.1 \mu\text{m}$ in size and $\leq 5\%$ $> 0.1 \mu\text{m}$ in size are obtained by grinding with an inorg. salt in a water-soluble organic solvent at $30-90^\circ$ for 2-6 h followed by removal of salt and solvent. The aggregates are used in coloring agent compns. with improved properties. In an example, C.I. Pigment Yellow 95 was ground with NaCl and diethylene glycol to provide a finely divided yellow pigment.

IT 30125-47-4, C.I. Pigment Yellow 138
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (yellow pigment; grinding of pigments to produce finely divided coloring materials)

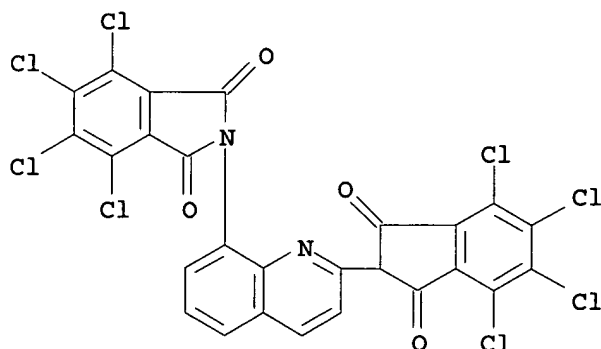
RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:175559 CAPLUS
 DN 132:209212
 TI Pigment granulates and their manufacture
 IN Reisacher, Hansulrich; Dotter, Anton; Berger, Gerhard; Pelz, Otmar;
 Seeger, Oliver
 PA Basf Aktiengesellschaft, Germany
 SO Eur. Pat. Appl., 10 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 985712	A1	20000315	EP 1999-117093	19990831
	EP 985712	B1	20020529		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19841377	A1	20000316	DE 1998-19841377	19980910
	ES 2178326	T3	20021216	ES 1999-117093	19990831
	US 6284035	B1	20010904	US 1999-391620	19990907
	JP 2000086931	A2	20000328	JP 1999-254542	19990908
PRAI	DE 1998-19841377	A	19980910		
AB	The title granulates, useful for coloration of polymers and coatings, comprise 50-99.5% of inorg. pigments, specifically Bi vanadate, Pb chromate, Ce sulfide, a rutile and/or a spinel pigment, and 0.5-50% of specified organic pigments. The granulates are manufactured by wet grinding of the crude pigments obtained in a manufacturing process, blending and drying the blends with mixing.				
IT	30125-47-4, C.I. Pigment Yellow 138 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (granulated inorg. pigment-organic pigment blends and wet grinding procedure for their manufacture)				
RN	30125-47-4 CAPLUS				
CN	1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)				



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L1	1	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	PIGMENT YELLOW 138/CN
L2	308	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L1
L3	5	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L1 (L) (GRINDING OR GROUND)
L4	13	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L2 AND (GRINDING OR GROUND)
L5	8	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L4 NOT L3

=> d 1-8 bib abs hitstr

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:696945 CAPLUS
 DN 143:173601
 TI Manufacture of dispersions of intrinsically conductive polymers
 IN Wessling, Bernhard
 PA Ormecon G.m.b.H., Germany
 SO PCT Int. Appl., 28 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005070972	A1	20050804	WO 2005-EP595	20050121
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 102004003784	A1	20050818	DE 2004-102004003784	20040123
PRAI	DE 2004-102004003784	A	20040123		

AB Stable dispersions containing particles on intrinsically conductive polymers with average particle size <1 µm were manufactured by use of a liquid dispersant.

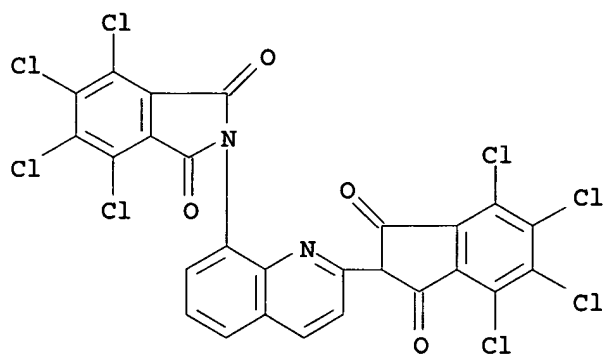
The films, sheets or plates made of such dispersion have a conductivity of >100 S/cm once the dispersant has been removed. The dispersions are manufactured by preparing intrinsically conductive polymers from monomers under controlled temperature conditions, grinding or dispersing the polymers in the presence of an inert nonpolymeric polar substance, and dispersing the product in a liquid dispersant. For example, dry polyaniline powder having conductivity 5 S/cm [preparation by polymerization of PhNH₂ with (NH₄)₂S₂O₈ in the presence of p-MeC₆H₄SO₃H given] was predispersed by rapid stirring for 3 min with 2 parts butyrolactone, extracted in fluidized bed with xylene and ground in a pearl mill with xylene to give highly viscous paste containing .apprx.4% polyaniline. The paste was diluted with CHCl₂CO₂H and CH₂Cl₂ and spin-coated on a glass substrate to give 150-nm-thick film having conductivity 220 S/cm.

IT 30125-47-4, Paliotol Yellow 0961K

RL: TEM (Technical or engineered material use); USES (Uses)
 (dispersing aid; manufacture of dispersions of intrinsically conductive polymers)

RN 30125-47-4 CAPLUS

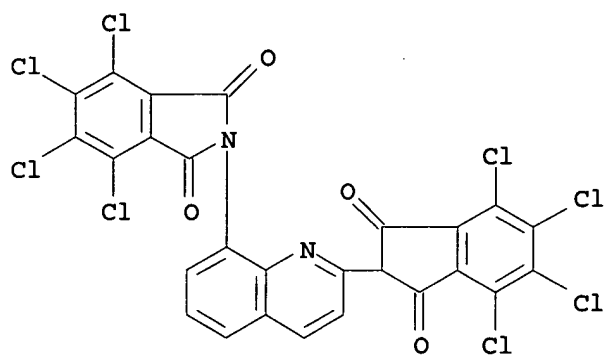
CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:673357 CAPLUS
 DN 143:173992
 TI Multi-color coloring laser marking chromatic color colorant, multi-color coloring laser marking resin composition and molding containing it, multi-color marking-carrying molding and laser marking method
 IN Kawakami, Kazuyoshi; Kurimoto, Hideyuki; Shimizu, Akira; Kosakai, Toshiyuki; Ishida, Mio
 PA Techno Polymer Co., Ltd., Japan
 SO PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005068557	A1	20050728	WO 2005-JP312	20050113
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2005225221	A2	20050825	JP 2004-267600	20040914
PRAI	JP 2004-9870	A	20040116		
	JP 2004-267600	A	20040914		
AB	The title colorant is capable of marking in ≥ 2 different tones by applying ≥ 2 laser beams having different energies to the different positions on a molding. The laser marking resin composition is capable of forming, for example, a colorant-derived chromatic color marking and a white marking on the surface of a molding giving a black or dark-color ground color. The colorant has a heating peak at 360-590° (measured by DTA). The laser marking resin composition includes a chromatic color colorant, a black substance (e.g., carbon black) that perishes itself or discolors when exposed to a laser beam, and a polymer, the contents of the colorant and the black substance being resp. 0.001-3 parts and 0.01-2 parts per 100 parts of the polymer.				
IT	30125-47-4				
	RL: TEM (Technical or engineered material use); USES (Uses) (chromatic colorants and resin compns. for multi-color coloring laser marking)				
RN	30125-47-4 CAPLUS				
CN	1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)				



RE.CNT 6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN **APPLICANT**
 AN 2005:570221 CAPLUS
 DN 143:79716
 TI Process for preparing transparent Pigment Yellow 138
 IN Smith, Norman W.; Schwartz, Russell J.; Clark, Kimberly A.; Chamberlain, Terence R.
 PA USA
 SO U.S. Pat. Appl. Publ., 4 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005139127	A1	20050630	US 2003-751245	20031231
	WO 2005066284	A1	20050721	WO 2004-US43789	20041228
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2003-751245 A 20031231

AB Title process comprises the steps of: (a) grinding Pigment Yellow 138 in the presence of a grinding agent (e.g., NaCl); (b) preparing an aqueous slurry of the ground pigment; (c) filtering the slurry resulting in a filter cake containing particles of transparent Pigment Yellow 138. In addition, a process for improving color strength of an ink and/or plastic composition is also disclosed by adding transparent Pigment Yellow 138 to the composition

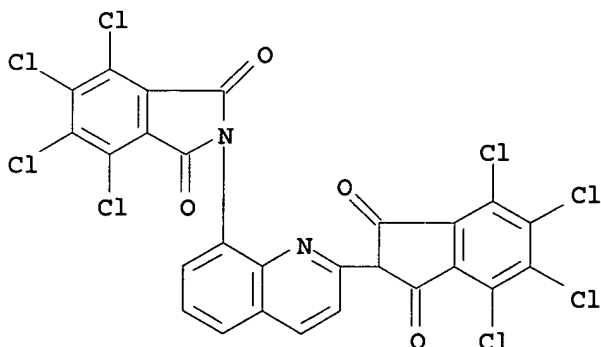
IT 30125-47-4, Pigment Yellow 138

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(preparation of transparent Pigment Yellow 138 for inks and plastics)

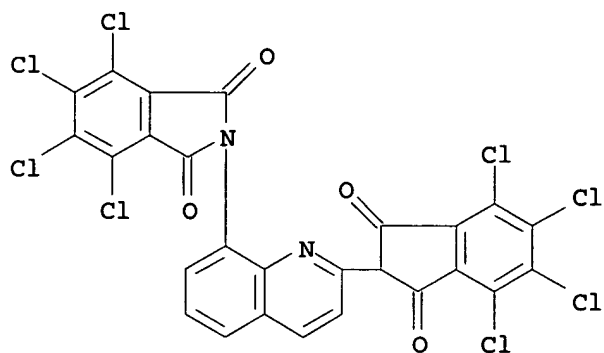
RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinoliny]- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:756781 CAPLUS
 DN 141:262149
 TI Pigment concentrates and method for their manufacturing
 IN Heubach, Rainer; Brussaard, Yvonne; Brussaard, Hugo
 PA Heubach G.m.b.H., Germany
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004078852	A1	20040916	WO 2004-EP2303	20040305
	W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI, NI, NO				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10309813	A1	20040923	DE 2003-10309813	20030305
PRAI	DE 2003-10309813	A	20030305		
AB	Pigment concs. with good brilliance consist of agglomerated particles (containing ≥ 1 inorg. pigment having average particle size 0.08 - 10 μm and ≥ 1 organic pigment having average particle size 0.005 - 3 μm and a dispersing agent) coated with modified siloxane or polysilane for lowering the abrasivity and improvement of dispersibility of the pigment and are prepared by wet grinding of the crude pigments in the presence of surfactants and blending and drying the blends. These concs. are useful for dyeing plastics, papers, for inks and paints and in building industry. A composition containing 1 weight part of Pigment Red 272, 4 parts of Pigment Brown 24 and 0.05-0.1 wt part of the surfactant Disperbyk 185 with 3-10 weight parts of water; the resulting slurry is milled, dried and deagglomerated, coated with trimethylsiloxo-terminated polydimethylsiloxane, milled again and exhibits a better dispersibility and decreased abrasivity, than uncoated pigment (Pigment Red 272).				
IT	30125-47-4, Pigment Yellow 138				
	RL: TEM (Technical or engineered material use); USES (Uses) (organic pigment; concentrate from organic and inorg. pigments coated by polymer surfactant with high brilliance)				
RN	30125-47-4 CAPLUS				
CN	1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)				



RE.CNT 7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:534007 CAPLUS
 DN 141:90612
 TI Pigmented inks and methods to improve ink performance
 IN Sun, Jing; Sacoto, Paul J.; Sun, Naiyu
 PA Lexmark International, Inc., USA
 SO U.S. Pat. Appl. Publ., 12 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004127619	A1	20040701	US 2002-330041	20021226
	US 6896724	B2	20050524		
PRAI	US 2002-330041		20021226		

AB The present invention relates to a pigment dispersion and a method of producing a pigment dispersion by grinding a grind mixture comprising a pigment, a humectant, water, and a polymeric dispersant. The invention also relates to an ink composition comprising an aqueous carrier and

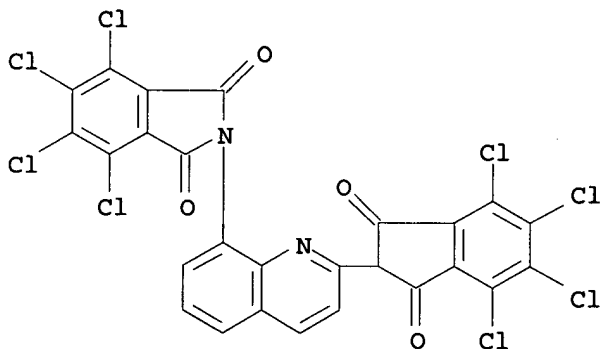
a pigment dispersion produced by grinding as above. The invention also relates to an ink composition comprising a pigment, a polymeric dispersant, a humectant, a basic dye, an aqueous carrier, wherein the pH of the ink composition is less than or equal to 7.

IT 30125-47-4, Pigment Yellow 138

RL: TEM (Technical or engineered material use); USES (Uses)
 (pigmented inks and dispersants for improving ink performance)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:508636 CAPLUS
 DN 139:60543
 TI Manufacture of yellowish green pigment compositions and color filters
 therewith for LCD
 IN Katsube, Hiroshi; Kiuchi, Eiichi; Kimura, Akira; Kudo, Arata; Funakura,
 Shoji
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003183535	A2	20030703	JP 2001-391501	20011225
PRAI	JP 2001-391501		20011225		

AB Green phthalocyanine compds. and yellow organic pigments are pulverized (to primary grain size 10-100 nm) to give title pigment compns. which impart color filter segments with high transparency and good color purity.

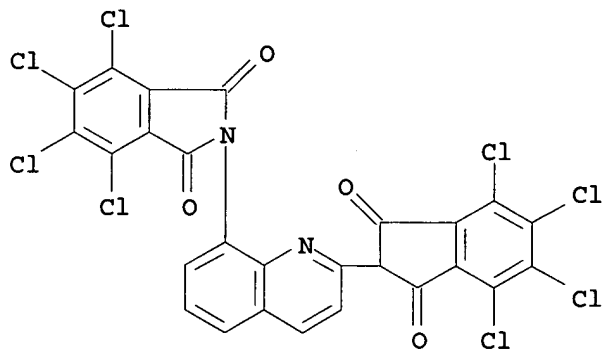
IT 30125-47-4, C.I. Pigment Yellow 138

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(manufacture of yellowish green pigment compns. for LCD color filters with good transparency and color purity)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:4901 CAPLUS
 DN 138:57545
 TI Dispersants for pigment dispersions for ink-jet ink compositions with good resistance to water and their manufacture and use
 IN Taniguchi, Keishi; Hatada, Shigeo
 PA Ricoh Company, Ltd., Japan
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1270690	A1	20030102	EP 2002-13330	20020618
	EP 1270690	B1	20040609		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004026852	A2	20040129	JP 2002-172025	20020612
	US 2003121449	A1	20030703	US 2002-173804	20020619
	US 6814792	B2	20041109		
PRAI	JP 2001-185169	A	20010619		
	JP 2002-130842	A	20020502		

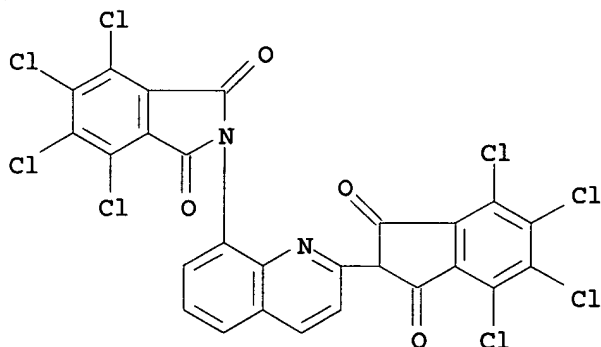
OS MARPAT 138:57545

AB The dispersions contain a pigment, a dispersant, and an aqueous medium, where the dispersant is selected from naphthol compds. RkXAhBjOH (X = naphthalenediyl; R = C1-20 alkyl, Ph, naphthyl group; k = 0, 1-7; A, B = oxyethylene, oxypropylene unit or their combination; h, j = 31-100) which can be used with other dispersants. Thus, mixing Toner Magenta E 02 (pigment) 30 with an ethoxylated propoxylated 2-naphthol 15, heptaethylene glycol mono(5-tridecyl) ether 0.2, C13H27(OCH2CH2)7OH 0.2 and water 155 parts and grinding in a sand mill containing zirconia beads having diameter 0.3 mm for 48 h gave a pigment dispersion with good storage stability. An ink-jet ink containing the dispersion 40.00, glycerin 7.50, diethylene glycol 22.50, 2-pyrrolidone 3.00, C13H27O(CH2CH2O)3CH2COONa 0.45 and water 76.55 parts gave prints with good resistance to water.

IT 30125-47-4, Lionogen Yellow 1010
 RL: TEM (Technical or engineered material use); USES (Uses)
 (pigments; dispersants for pigment dispersions for ink-jet ink compns. with good resistance to water and their manufacture and use)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:573737 CAPLUS
 DN 122:292309
 TI Dispersible polymer powder with intrinsic electric conductivity and its manufacturing process
 IN Wessling, Bernhard; Blaettner, Susanne; Merkle, Holger, Jr.
 PA Zipperling Kessler & Co. (GmbH & Co.), Germany
 SO Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4317010	A1	19941124	DE 1993-4317010	19930517
	CA 2162898	AA	19941124	CA 1994-2162898	19940406
	CA 2162898	C	20040824		
	WO 9427297	A1	19941124	WO 1994-EP1060	19940406
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 700573	A1	19960313	EP 1994-913536	19940406
	EP 700573	B1	19971001		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 08510275	T2	19961029	JP 1994-524849	19940406
	JP 3583427	B2	20041104		
	AT 158891	E	19971015	AT 1994-913536	19940406
	ES 2108443	T3	19971216	ES 1994-913536	19940406
	US 5720903	A	19980224	US 1995-557004	19951117
PRAI	DE 1993-4317010	A	19930517		
	WO 1994-EP1060	W	19940406		

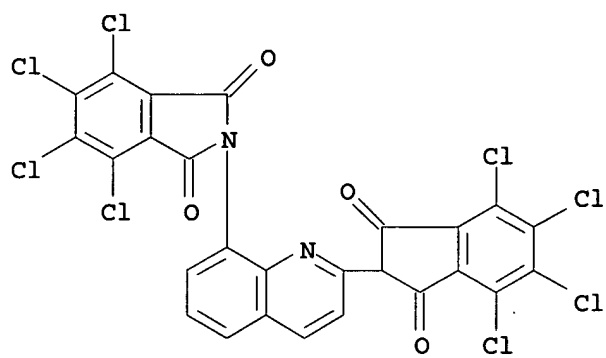
AB A title polymer, specifically a polyaniline having elec. conductivity (4-point method on compressed powder tablet) >25 S/cm, is claimed. In the manufacturing process, a polymer powder having starting conductivity 1-5 S/cm is "ground" and/or dispersed in a fast mixer, a ball mill, or an ultrasonic blender, optionally in the presence of an elec. field, with a non-polymeric polar solid (BaSO₄, TiO₂, Pigment Yellow 18) or liquid (H₂O, DMF, DMSO, γ -butyrolactone, N-methylpyrrolidone, dioxane, or lactones) having surface tension >30 dyne/cm. For example, intensive stirring of Versicon powder for 3 min with 2 vols. γ -butyrolactone gave a title powder which was compressed into a tablet having elec. conductivity

650 S/cm, vs. 5 S/cm for the starting powder.

IT 30125-47-4, Paliotol Yellow 0961K
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (dispersible polymer powder with intrinsic elec. conductivity and its manufacturing process)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 15:44:17 ON 03 NOV 2005)

FILE 'REGISTRY' ENTERED AT 15:44:26 ON 03 NOV 2005

L1 1 SEA ABB=ON PLU=ON PIGMENT YELLOW 138/CN
D

FILE 'CAPLUS' ENTERED AT 15:44:45 ON 03 NOV 2005

L2 308 SEA ABB=ON PLU=ON L1
L3 5 SEA ABB=ON PLU=ON L1 (L) (GRINDING OR GROUND)
D BIB ABS HITSTR
D L3 1-5 BIB ABS HITSTR
L4 13 SEA ABB=ON PLU=ON L2 AND (GRINDING OR GROUND)
L5 8 SEA ABB=ON PLU=ON L4 NOT L3
D QUE L5 STAT
D 1-8 BIB ABS HITSTR

FILE HOME

FILE REGISTRY

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DICTIONARY FILE UPDATES: 2 NOV 2005 HIGHEST RN 866586-00-7

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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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FILE LAST UPDATED: 2 Nov 2005 (20051102/ED)

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(FILE 'HOME' ENTERED AT 15:20:12 ON 03 NOV 2005)

FILE 'REGISTRY' ENTERED AT 15:20:20 ON 03 NOV 2005
E PIGMENT YELLOW 138/CN

L1 1 S E3

FILE 'CAPLUS' ENTERED AT 15:21:24 ON 03 NOV 2005

L2 11 S L1/P

=> d l1 ide can

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

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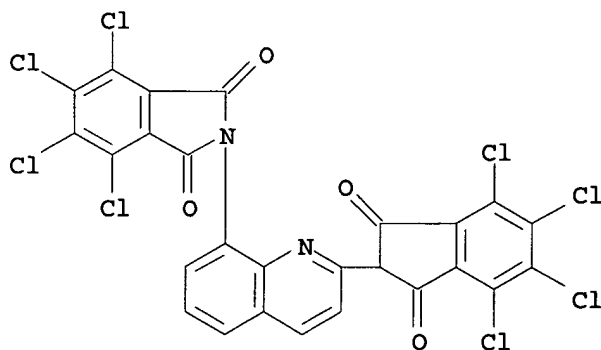
<http://www.cas.org/ONLINE/UG/regprops.html>

=> d l1 ide can

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 30125-47-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,4,5,6-Tetrachloro-N-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolyl]phthalimide
CN C.I. 56300
CN C.I. Pigment Yellow 138
CN K 0961HD
CN Lionogen Yellow 1010
CN Lithol Fast Yellow 1090
CN Paliotol Yellow 0961HD
CN Paliotol Yellow 0961K
CN Paliotol Yellow 0965K
CN Paliotol Yellow 1090
CN Paliotol Yellow D 0960
CN Paliotol Yellow K 0961HD
CN Paliotol Yellow L 0960
CN Paliotol Yellow L 0960HD
CN Paliotol Yellow L 0962HD
CN Pigment Yellow 138
CN Quinophthalone Yellow
CN YT 123
FS 3D CONCORD
DR 163663-19-2, 56731-19-2, 72779-84-1, 340700-36-9
MF C26 H6 Cl8 N2 O4
LC STN Files: CA, CAPLUS, CASREACT, CHEMLIST, CIN, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

307 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
308 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:327873
REFERENCE 2: 143:287910
REFERENCE 3: 143:275728
REFERENCE 4: 143:275615

REFERENCE 5: 143:249886
REFERENCE 6: 143:238718
REFERENCE 7: 143:195306
REFERENCE 8: 143:173992
REFERENCE 9: 143:173601
REFERENCE 10: 143:163241

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=> d l2 1-11 bib abs hitstr

L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:1004831 CAPLUS
 DN 143:287910
 TI Process for the preparation of organic pigments
 IN Kaul, Bansil Lal
 PA MCA Technologies GmbH, Switz.
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005085364	A1	20050915	WO 2004-IB530	20040220
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI WO 2004-IB530 20040220

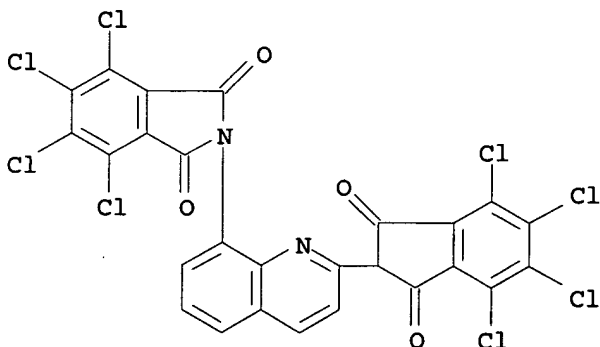
AB The present invention relates to an advantageous process for the preparation of quinacridone pigments, isoindolinone pigments, isoindoline pigments, quinophthalone pigments, and the precursors thereof, to the products obtained by such process and to their use. The invention particularly relates to reactions carried out in an 'All In One Reactor' (Draiswerke GmbH, Germany), a kneader like the TurbuKneader of the same company, a paddle dryer like the Turbudry of the same company or a related system and thereby submitting the reaction mixts. to enhanced driving power as expressed by a Froude number >1, the reaction mixture being caused to react in high concns. at elevated temperature

IT 30125-47-4P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (process for preparation of quinacridone, isoindolinone, isoindoline, and quinophthalone pigments)

RN 30125-47-4 CAPLUS

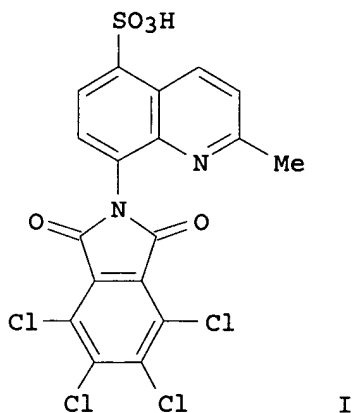
CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:1080988 CAPLUS
 DN 142:58225
 TI Use of quinaldine and naphthalene derivatives as crystallization modifiers
 for quinophthalone (and other) pigments.
 IN Stohr, Andreas; Schroeck, Manfred
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004108837	A1	20041216	WO 2004-EP6164	20040608
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10326631	A1	20050105	DE 2003-10326631	20030611
PRAI	DE 2003-10326631	A	20030611		
OS	MARPAT 142:58225				
GI					



AB Quinaldine and naphthalene derivs. are useful as crystallization modifiers in the

process of grinding and recrystn. of crude quinophthalone pigments from aqueous or/and organic solvent/water mixts. into fine-particle pigments.

Thus, I

(prepared by heating a mixture containing 100 g of phenol, 34 g of 8-aminoquinaldine-5-sulfonic acid and 49 g of tetrachlorophthalic anhydride 8 h at 180°, cooling to 90°, adding 300 mL of methanol, washing and drying at 40°) is used in recrystn. of crude quinophthalone pigment having particle size 2 cm (Pigment yellow 138) from xylene solution with additives of aliphatic amines.

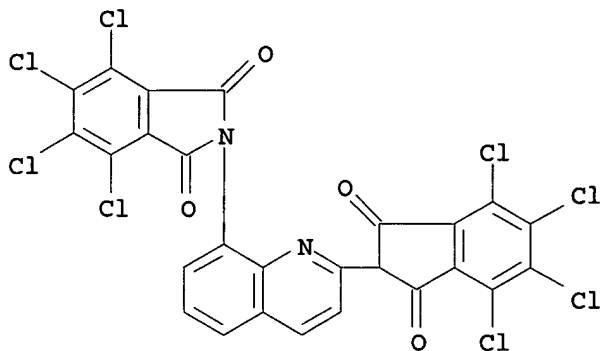
IT 30125-47-4P, Pigment yellow 138

RL: PUR (Purification or recovery); PREP (Preparation)

(quinaldine and naphthalene derivs. as crystallization modifiers in grinding and recrystn. of crude quinophthalone pigments)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



RE.CNT 4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:876603 CAPLUS
 DN 141:351476
 TI Yellow pigment compositions with low viscosity and good storage stability
 for color filters
 IN Katsube, Hiroshi; Kiuchi, Eiichi; Kimura, Akira; Kudo, Arata; Tokuoka,
 Mayumi; Kishimoto, Masaaki; Saito, Yoichi
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

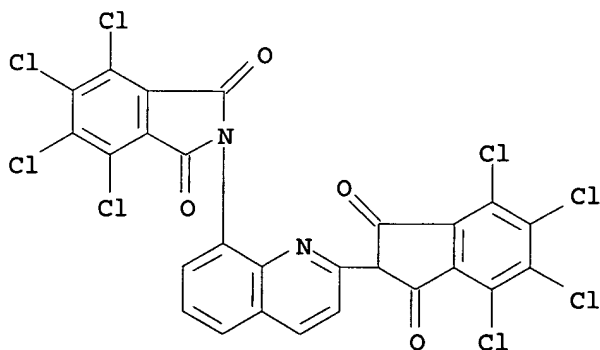
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004292785	A2	20041021	JP 2003-207119	20030811
PRAI	JP 2003-37022	A	20030214		

AB Title compns. comprise quinophthalone type pigments and metal salts of quinophthalone type pigments, wherein the metal salts of quinophthalone type pigments are divalent metal salts of quinophthalone sulfonic acid type pigments. Thus, Paliotol Yellow K 0961 HD 200, salts 300, and diethylene glycol 850 parts were kneaded at 90° for 6 h, washed, and pulverized to give 25%-pigment particle wet cake with average primary particle diameter 26 nm, 38.0 parts of which was mixed with 33.3 parts 15%-pigment wet cake of sulfonated Paliotol Yellow K 0961 HD in 100 parts water, adjusted at pH 8.5 using a sodium hydroxide solution, 1.1 parts strontium chloride was added therein, 10 parts of the resulting pigment composition was mixed with N,N'-dimethylforamide 2.5, Ucar Ester EEP 80.80, and Disperbyk 161 6.78 parts, 75.00 parts of the resulting pigment dispersion was mixed with Aronix M 7100 5.50, Kayarad DPHA 5.00, Kayacure BP 100 1.00, and Ucar Ester EEP 13.5 parts, applied on a glass substrate, patterned, and developed to give a test piece with good transparency, brightness, and colorness.

IT 30125-47-4DP, Paliotol Yellow K 0961 HD, sulfonated, salts
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (pigment; yellow pigment compns. with low viscosity and good storage stability for color filters)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinoliny]- (9CI) (CA INDEX NAME)



L2 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:330286 CAPLUS

DN 140:340755

TI Modification of quinophthalone-typed organic pigments, pigment dispersion, and photosensitive coloring composition

IN Kodama, Tomohiro

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004123853	A2	20040422	JP 2002-288277	20021001
PRAI	JP 2002-288277		20021001		

AB Modified quinophthalone-typed pigments with super detachability and fluidity are obtained by dissolving the organic pigments into basic compound and/or basic solution, such as C1-18 primary or secondary amine, followed by adding neutral compound and/or acidic solution to precipitate Pigment dispersion

contains the above pigment and an acidic group-containing binder polymer is also provided, and a photosensitive coloring composition comprises the above pigment dispersion, an acidic group-containing binder, multifunctional monomers with ≥ 2 unsatd. ethylene-typed groups, and a photoinitiator. Thus, a quinophthalone organic pigment (Pigment Yellow 138) was treated with Bu amine at 0° for 1 h.

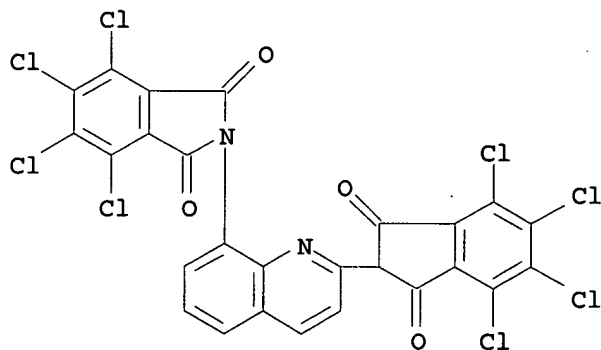
IT 30125-47-4DP, Pigment Yellow 138, reaction products with amines

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(modification of quinophthalone-typed organic pigments for pigment dispersion and photosensitive coloring composition)

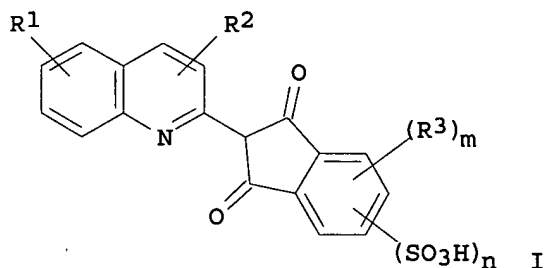
RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinoliny]- (9CI) (CA INDEX NAME)



L2 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:249640 CAPLUS
 DN 140:272406
 TI Stable pigment compositions useful for gravure inks, paints, or color filters and dispersants therefor
 IN Oki, Shigeru; Yanagimoto, Hiromitsu
 PA Dainichiseika Color and Chemical Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2004091497	A2	20040325	JP 2002-241979	20020822
PRAI	JP 2002-204540	A	20020712		
OS	MARPAT 140:272406				
GI					



AB The dispersants are (quaternary ammonium salts, amine salts, or metal salts of) I [R1 = H, halo, OH, alkyl, (un)substituted aryl, (un)substituted phthalimide; R2 = H, OH; R3 = halo; m = 0-4; n = 0.5-4 (average value)]. Compns. comprising pigments and the dispersions are also claimed. Thus, a polyamide gravure ink containing C.I. Pigment Yellow 138 and I (R1, R2 = H; R3 = Cl; m = 4; n = 1.3; prepared by sulfonation of tetrachloroquinophthalone), showed viscosity 281 and 289 mPa-sec, initially and after 7 days, resp., and high gloss when coated.

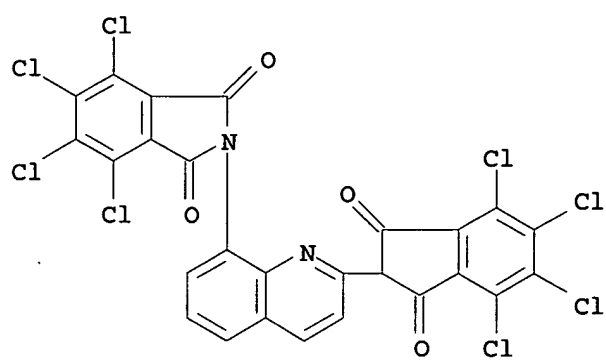
IT 30125-47-4DP, sulfonated, optionally calcium salts or salts with tetra-Bu ammonium chloride

RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(dispersants; sulfonated quinophthalone derivs. as dispersants for stable pigment compns. useful for gravure inks, paints, or color filters)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L2 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:159433 CAPLUS

DN 140:183244

TI Manufacture of pigment compositions with good dispersibility for color filters

IN Saito, Yoichi; Fuyama, Satoru; Araki, Shingo; Kishimoto, Masaaki; Katsube, Hiroshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004059770	A2	20040226	JP 2002-221148	20020730
PRAI	JP 2002-221148		20020730		
OS	MARPAT 140:183244				

AB The pigment compns. containing ≥ 2 pigments are manufactured by wet-grinding in the presence of quinophthalone derivative sulfonic acids or their salts. Thus, a composition containing C.I. Pigment Green 36 50, C.I. Pigment Yellow

138

50, sulfonated Paliotol Gelb K 0961HD (quinophthalone derivative) 5, diethylene glycol 200, and NaCl 700 parts was ground, washed with hot water, and dried to give a composition with average primary particle size 50

nm.

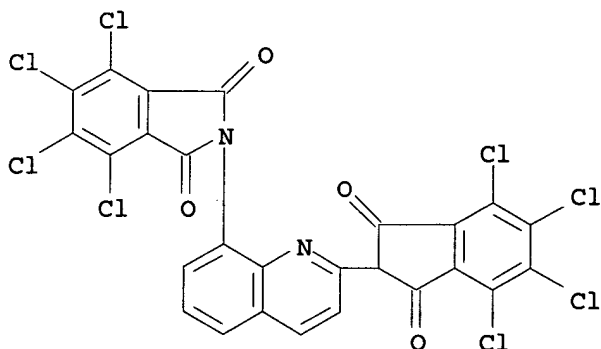
IT 30125-47-4DP, K 0961HD, sulfonated

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(Paliotol Yellow K 0961HD; manufacture of pigment compns. by wet-grinding pigments in the presence of sulfonated quinophthalone derivs. for color filters)

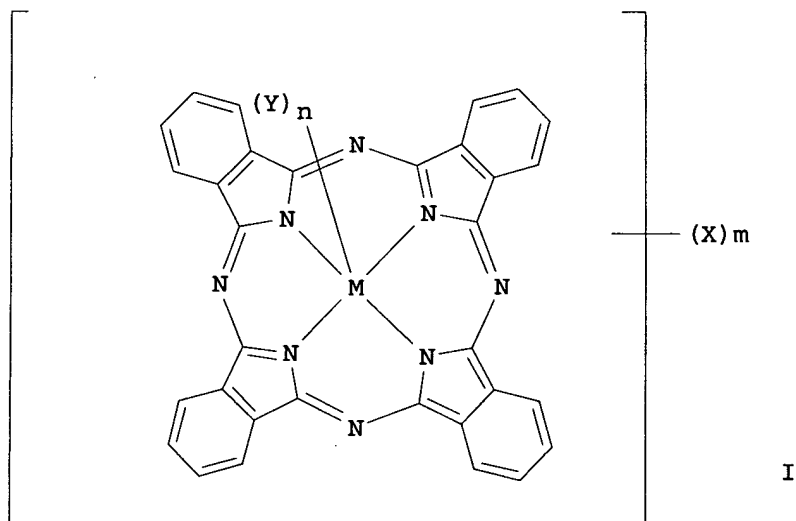
RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)

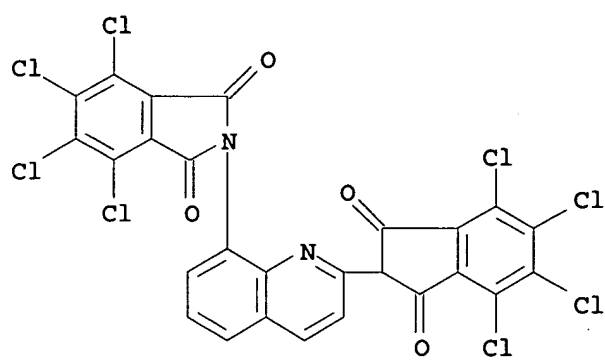


L2 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:481831 CAPLUS
 DN 139:60524
 TI Color filters and pigmented resists therefor having bright green color with large yellowness index
 IN Katsube, Hiroshi; Kiuchi, Eiichi; Kimura, Akira; Kudo, Arata; Funakura, Shoji
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003176424	A2	20030624	JP 2001-378536	20011212
PRAI	JP 2001-378536		20011212		
OS	MARPAT 139:60524				
GI					



AB The resists contain halophthalocyanine I (M = Al, Si, Sc, Ti, V, Mg, Fe, Co, Ni, Zn, Ga, Ge, Y, Zr, Nb, In, Sn, Pb, 2H; X = F, Cl, Br, I; m = 8-16 integer; Y = F, Cl, Br, I, O, OH, SO₄; n = 0-2 integer) as green pigments and sulfonic acid (salt)-containing condensed polycycles as yellow pigments.
 IT 30125-47-4DP, C.I. Pigment Yellow 138, sulfonated
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (yellowish green resists containing halometallophthalocyanine pigments and sulfonated quinophthalone pigments for LCD color filters)
 RN 30125-47-4 CAPLUS
 CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L2 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:76863 CAPLUS
 DN 138:124059
 TI Ink compositions comprising modified colored pigments and methods for preparing the same
 IN Yu, Yuan; Kowalski, Mark H.; Palumbo, Paul S.
 PA Cabot Corporation, USA
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

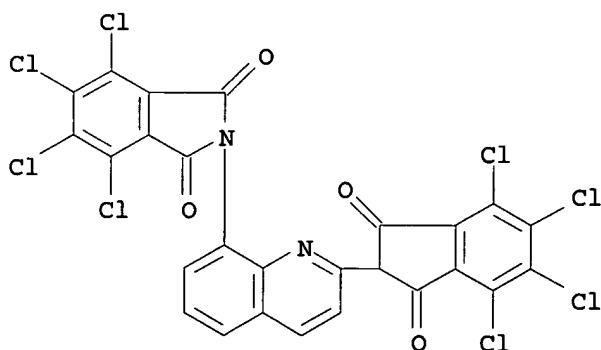
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003008509	A1	20030130	WO 2002-US21523	20020709
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003024433	A1	20030206	US 2001-909328	20010719
	US 6641653	B2	20031104		
PRAI	US 2001-909328	A	20010719		

AB The present invention describes an ink composition comprising a liquid vehicle and a modified colored pigment. The modified colored pigment comprises the product of a colored pigment having at least one leaving group and a treating agent. The modified colored pigments are also disclosed, as are processes for producing them. Pigment green 36 was treated with 4-mercaptophenol in the presence of KOH.

IT 30125-47-4DP, Pigment yellow 138, modified
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (ink compns. comprising modified colored pigments and methods for preparing the same)

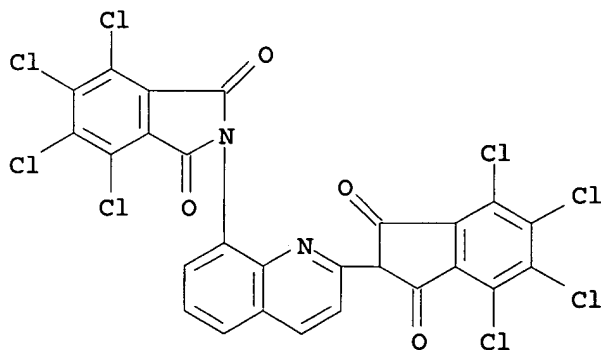
RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)

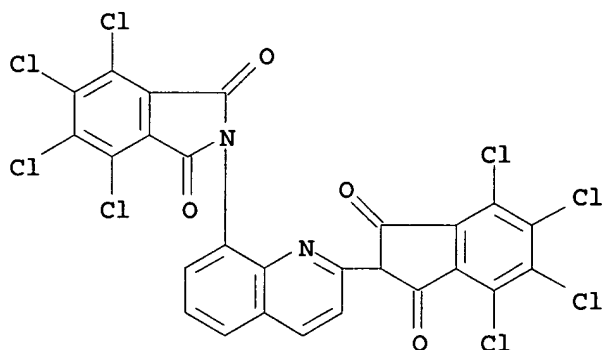


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:774646 CAPLUS
Correction of: 1996:758374
DN 135:290189
Correction of: 126:33046
TI Polycyclic pigments - synthesis, properties and applications Part 1
Quinacridone, fluorubine, diketopyrrolopyrrole and quinophthalone
AU Malanker, Jayesh V.; Paul, Roshan; Shankarling, Ganapati S.
CS Department of Chemical Technology, University of Bombay, Mumbai, 400019,
India
SO Paintindia (1996), 46(10), 45-51
CODEN: PANTAH; ISSN: 0556-4409
PB Colour Publications
DT Journal
LA English
AB Synthesis, applications and properties of quinacridone, fluorubine,
diketopyrrolopyrrole and quinophthalone pigments were discussed, including
C. I. Pigment Violet 19, C. I. Pigment Red 122, C. I. Pigment Red 202, C.
I. Pigment Red 207, C. I. Pigment Red 254, and C. I. Pigment Yellow 138.
IT 30125-47-4P, C.I. Pigment Yellow 138
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(synthesis, properties and applications of polycyclic pigments)
RN 30125-47-4 CAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-
2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)

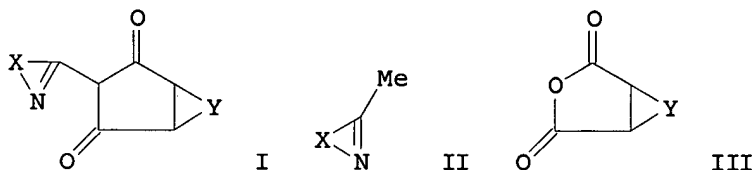


L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:758374 CAPLUS
DN 126:33046
TI Polycyclic pigments - synthesis, properties and applications Part 1
Quinacridone, fluorubine, diketopyrrolopyrrole and quinophthalone
AU Malanker, Jayesh V.; Paul, Roshan; Shankarling, Ganapati S.
CS Department of Chemical Technology, University of Bombay, Mumbai, 400019,
India
SO Paintindia (1996), 46(10), 45-51
CODEN: PANTAH; ISSN: 0556-4409
PB Colour Publications
DT Journal
LA English
AB Synthesis, applications and properties of quinacridone, fluorubine,
diketopyrrolopyrrole and quinophthalone pigments were discussed, including
C. I. Pigment Violet 19, C. I. Pigment Red 122, C. I. Pigment Red 202, C.
I. Pigment Red 207, C. I. Pigment Red 254, and C. I. Pigment Yellow 138.
IT 30125-47-4P, C.I. Pigment Yellow 138
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(synthesis, properties and applications of polycyclic pigments)
RN 30125-47-4 CAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-
2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



L2 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:610206 CAPLUS
 DN 115:210206
 TI Preparation of quinophthalone pigments
 IN Kilpper, Gerhard; Hoch, Helmut
 PA BASF A.-G., Germany
 SO Ger. Offen., 3 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3940348	A1	19910613	DE 1989-3940348	19891206
	WO 9108264	A1	19910613	WO 1990-EP2036	19901128
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	EP 504182	A1	19920923	EP 1990-917666	19901128
	EP 504182	B1	19940420		
	R: CH, DE, FR, GB, IT, LI				
	JP 05501579	T2	19930325	JP 1991-500112	19901128
	US 5342950	A	19940830	US 1992-835986	19920227
PRAI	DE 1989-3940348	A	19891206		
	WO 1990-EP2036	W	19901128		
OS	MARPAT 115:210206				
GI					

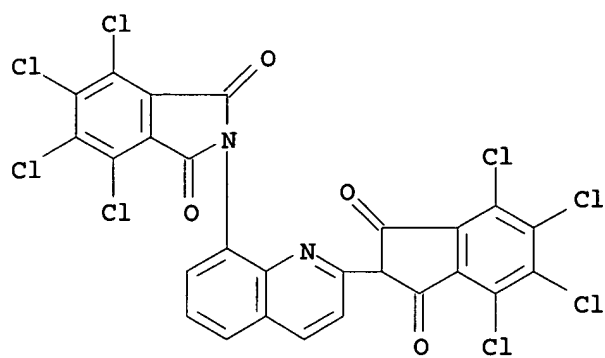


AB The pigments (I; X = heteroarom. ring; Y = aromatic ring) are prepared by condensation of II with III (or the corresponding free dicarboxylic acid) in an alkyl benzoate (preferably Me benzoate) containing an acid. The process provides good yields and high product purity. Thus, a solution of MeOBz 300, 8-aminoquinoline 26.4, tetrachlorophthalic anhydride 144.4, and BzOH 15 g was heated 7 h at 180° to give 97% C.I. Pigment Yellow 138.

IT 30125-47-4P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of, from aminoquinoline and tetrachlorophthalic anhydride in Me benzoate)

RN 30125-47-4 CAPLUS

CN 1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrachloro-2-[2-(4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-8-quinolinyl]- (9CI) (CA INDEX NAME)



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L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON "PIGMENT YELLOW 138"/CN
L3 19 SEA FILE=CAPLUS ABB=ON PLU=ON "SMITH NORMAN W"/AU
L4 33 SEA FILE=CAPLUS ABB=ON PLU=ON ("SCHWARTZ RUSSELL"/AU OR
 "SCHWARTZ RUSSELL J"/AU)
L5 4 SEA FILE=CAPLUS ABB=ON PLU=ON ("CLARK KIMBERLY"/AU OR "CLARK
 KIMBERLY A"/AU)
L6 16 SEA FILE=CAPLUS ABB=ON PLU=ON ("CHAMBERLAIN TERENCE"/AU OR
 "CHAMBERLAIN TERENCE R"/AU OR "CHAMBERLAIN TERENCE RICHARD"/AU)

L7 65 SEA FILE=CAPLUS ABB=ON PLU=ON L3 OR L4 OR L5 OR L6
L8 1 SEA FILE=CAPLUS ABB=ON PLU=ON L7 AND L1

=> d bib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:570221 CAPLUS
 DN 143:79716
 TI Process for preparing transparent Pigment Yellow 138
 IN Smith, Norman W.; Schwartz, Russell J.; Clark,
 Kimberly A.; Chamberlain, Terence R.
 PA USA
 SO U.S. Pat. Appl. Publ., 4 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005139127	A1	20050630	US 2003-751245	20031231
	WO 2005066284	A1	20050721	WO 2004-US43789	20041228
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				
	RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				
	MR, NE, SN, TD, TG				

PRAI US 2003-751245 A 20031231

AB Title process comprises the steps of: (a) grinding Pigment Yellow 138 in
 the presence of a grinding agent (e.g., NaCl); (b) preparing an aqueous slurry
 of
 the ground pigment; (c) filtering the slurry resulting in a filter cake
 containing particles of transparent Pigment Yellow 138. In addition, a process
 for improving color strength of an ink and/or plastic composition is also
 disclosed by adding transparent Pigment Yellow 138 to the composition

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(FILE 'HOME' ENTERED AT 15:20:12 ON 03 NOV 2005)

FILE 'REGISTRY' ENTERED AT 15:20:20 ON 03 NOV 2005

E PIGMENT YELLOW 138/CN

L1 1 SEA ABB=ON PLU=ON "PIGMENT YELLOW 138"/CN
D

FILE 'CAPLUS' ENTERED AT 15:21:24 ON 03 NOV 2005

L2 11 SEA ABB=ON PLU=ON L1/P

D QUE L2 STAT

D QUE L1 STAT

FILE 'REGISTRY' ENTERED AT 15:24:52 ON 03 NOV 2005

D L1 IDE CAN

FILE 'CAPLUS' ENTERED AT 15:25:04 ON 03 NOV 2005

D L2 1-11 BIB ABS HITSTR

E SMITH NORMAN/AU

L3 19 SEA ABB=ON PLU=ON "SMITH NORMAN W"/AU

E SCHWARTZ RUSSELL/AU

L4 33 SEA ABB=ON PLU=ON ("SCHWARTZ RUSSELL"/AU OR "SCHWARTZ
RUSSELL J"/AU)

E CLARK KIMBERLY/AU

L5 4 SEA ABB=ON PLU=ON ("CLARK KIMBERLY"/AU OR "CLARK KIMBERLY
A"/AU)

E CHAMBERLAIN TERENCE/AU

L6 16 SEA ABB=ON PLU=ON ("CHAMBERLAIN TERENCE"/AU OR "CHAMBERLAIN
TERENCE R"/AU OR "CHAMBERLAIN TERENCE RICHARD"/AU)

L7 65 SEA ABB=ON PLU=ON L3 OR L4 OR L5 OR L6

L8 1 SEA ABB=ON PLU=ON L7 AND L1

D QUE L8 STAT

D BIB ABS

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 2 NOV 2005 HIGHEST RN 866586-00-7

DICTIONARY FILE UPDATES: 2 NOV 2005 HIGHEST RN 866586-00-7

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conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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